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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/431,581	11/01/1999	HENDRIKUS J. GRUTTER	PHN-17159	8896
24737	7590 09/12/2003			
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
P.O. BOX 300 BRIARCLIFF	MANOR, NY 10510		HA, YVONNE QUY M	
			ART UNIT	PAPER NUMBER
			2697	V
			DATE MAILED: 09/12/2003	11

Please find below and/or attached an Office communication concerning this application or proceeding.

	ن ا	Application No.	Applicant(s)
		09/431,581	GRUTTER, HENDRIKUS J.
	Office Action Summary	Examiner	Art Unit
		Yvonne Q. Ha	2697
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover s	neet with the correspondence address
THE - Exte after - If the - If NO - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replayer of the reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by statute the provided by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however ly within the statutory minimu will apply and will expire SIX e, cause the application to be	may a reply be timely filed m of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communication. come ABANDONED (35 U.S.C. § 133).
1)🛛	Responsive to communication(s) filed on 11	July 2003 .	
2a) <u></u>	This action is FINAL . 2b)⊠ T	his action is non-fina	l.
3)□ Dispositi	Since this application is in condition for allow closed in accordance with the practice under ion of Claims	rance except for fom Ex parte Quayle, 19	nal matters, prosecution as to the merits is 035 C.D. 11, 453 O.G. 213.
4)🖂	Claim(s) 1-12 is/are pending in the applicatio	n.	
	4a) Of the above claim(s) is/are withdra	wn from considerati	on.
5)□	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-12</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8)	Claim(s) are subject to restriction and/o	or election requireme	ent.
Applicat	on Papers	-	
9)□	The specification is objected to by the Examine	er.	
10) 🗌	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected	to by the Examiner.
	Applicant may not request that any objection to the		•
11) 🗌	The proposed drawing correction filed on	_ is: a)∏ approved	b) disapproved by the Examiner.
	If approved, corrected drawings are required in re	eply to this Office action	n.
12) 🗌	The oath or declaration is objected to by the Ex	xaminer.	
Priority (ınder 35 U.S.C. §§ 119 and 120		
13)	Acknowledgment is made of a claim for foreig	n priority under 35 L	.S.C. § 119(a)-(d) or (f).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority documen	ts have been receive	ed.
	2. Certified copies of the priority documen	ts have been receive	ed in Application No
* 5	3. Copies of the certified copies of the price application from the International Buse the attached detailed Office action for a list	ireau (PCT Rule 17.	2(a)).
14) 🗌 A	acknowledgment is made of a claim for domest	ic priority under 35 l	J.S.C. § 119(e) (to a provisional application).
) The translation of the foreign language practice. Acknowledgment is made of a claim for domes.	• •	
Attachmen	t(s)		
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 N	erview Summary (PTO-413) Paper No(s) stice of Informal Patent Application (PTO-152) her:
J.S. Patent and Ti PTOL-326 (R		ction Summary	Part of Paper No. 11

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Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1, 2, and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tezuka, (US Patent 6,331,989) in view of Ng et al. (US Patent 5,121,205).

Referring to claims 1, 2, and 8-11, the Tezuka discloses a multiplexer (block 1 of figure 1) for transmitting a plurality of digital signals having different frame lengths and bit synchronized at the same signal rate (bits/sec) upon multiplexing the signals in a predetermined order, and a demultiplexer for demultiplexing a received multiplexed signal and detecting a predetermined sync pattern (i.e. auxiliary) which was multiplexed with the digital signals, from each digital signal (col.2, lines 52-59; figures 1-3). The Tezuka also discloses the four different types of signals for multiplexing and demultiplexing including variable length type signals (col. 3, lines 23-24). Tezuka does not expressly disclose a multiplexer is arranged for introducing an auxiliary signal with a variable length depending on the aggregate rate of the source signal. However, Ng discloses the main signal is delayed relative to the auxiliary signal to ensure synchronism when the signals are combined due to the time required for transmitting and decoding the variable length codes of the data compressed auxiliary signal (col. 3, lines 26-30, figure 1). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the multiplex/demultiplexing teaching of the Tezuka and Ng to associate length of variable auxiliary signal (i.e. flag/control information) is dependent on aggregate rate of source signal because the total bandwidth between the systems (i.e. output of multiplexer into the

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demultiplexer) must have sufficient bandwidth to accommodate the instantaneous system inputs (varied flag field, or with/without loads for transport). Varying the sync pattern (i.e. auxiliary signal) will not overload the multiplexing length.

3. Claims 3-4, 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tezuka, (US Patent 6,331,989) in view of Washington et al. (US Patent 5,920,572) and in further view of Park et al. (US Patent 6,529,528).

Referring to claims 3 and 12, Tezuka and Washington disclose all aspects of the claimed inventions but failed to teach auxiliary signal assumes zero value. However, Park teaches the length of variable auxiliary signal can assume value zero if the data field comprises a predefined length (col.4, lines 26-27). Therefore, it would have been obvious to a person of ordinary skill in the art to have the auxiliary signal as zero value because the flag values contain bit pattern.

Referring to claim 4, Tezuka and Washington disclose all aspects of the claimed invention and failed to teach multiplexing frame and converting sync code. However, Park teaches the multiplexing the data of a predetermined frame and converting an 8-bit sync code forming a flag (col. 3, lines 34-36 of Park). Therefore, it would have been obvious to a person of ordinary skill in the art to extract the auxiliary signal out of the main signal because auxiliary signal contains control information referenced to the frame.

4. Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tezuka (US Patent 6,331,989), Washington et al. (US Patent 5,920,572) and in view of Park et al. (US Patent 6,529,528) and in further view of Kurobe et al., (US Patent 6,233,251).

Referring to claim 5, Tezuka, Washington, and Park disclose all the aspects of the claimed invention but failed to disclose using the length field to extract the source signal. However, the Kurobe

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et al. reference discloses the multiplex frame is a fixed length including a header and a fixed-length field (col. 4, lines 57-65 of Kurobe). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the length field in the multiplex frame of the Tezuka's reference to carry the source signal across the transmission link and to extract the signal from the frame at the demultiplexer, thereby accurately recovering the source information.

Referring to claims 6 and 7, Tezuka, Washington, and Park disclose all the aspects of the claimed invention, and further taught that the method of multiplexing and demultiplexing the variable length data packet signal type by performing the bit multiplexing and demultiplexing respectively.

Tezuka, and Washington failed to disclose the length field definition with a first number of symbols.

However, the Kurobe discloses the multiplex frame includes a fixed length field with two variable-length slots. The length of the first variable-length slot is a predetermined fixed length when data to be stored exists and is zero with no data to be stored. The length of the second variable-length slot is increase or decreased depending on the first variable-length slot. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to define the comparison logic of 1 or greater than 1 between the first number of symbol and the second number of symbol because it is conventional in the length field with variable length.

Response to Arguments

5. Applicant's arguments with respect to claims 1-3, 8-12 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Arimilli et al. (US Patent 5,682,386) discloses data/voice/fax compression multiplexer

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- Arimilli (US Patent 6,275,502) discloses advanced priority statistical multiplexer

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7. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Yvonne Q. Ha whose telephone number is 703-305-8392. The examiner can

normally be reached on Monday-Friday 7a.m.-4p.m. Eastern.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Ricky Ngo can be reached on 703-305-4798. The fax phone numbers for the organization where this

application or proceeding is assigned are 703-305-3988 for regular communications and 703-305-9051

for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the receptionist whose telephone number is 703-305-3900.

YQH

September 3, 2003

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